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IN THE CLAIMS:

Claim Summary

Claims 2, 3, 5-21, 58, 59, 61 and 62 are amended. Claim 60 is cancelled. For the Examiner's convenience, and in accordance with 37 C.F.R. § 1.121, a complete listing of the claims is set forth below with corresponding status identifiers for each claim.

AMENDED CLAIMS

- 1. (Cancelled).
- 2. (Currently amended) <u>The A process as defined in claim 59,</u> wherein the carrier-connection element combination is arranged in the housing at an angle to a longitudinal direction when said molding compound is poured in.
- 3. (Currently amended) <u>The A process as defined in claim 59, wherein the carrier-connection element combination is leaned against an inner wall of the housing when molding compound is poured in.</u>
- 4. (Cancelled).
- 5. (Currently amended) $\underline{\text{The}}$ A process as defined in claim 58, wherein the connection element is rigidly connected to the carrier.
- 6. (Currently amended) $\underline{\text{The}}$ A process as defined in claim 5, wherein a plurality of contact pins of the connection element are connected to the carrier.
- 7. (Currently amended) $\underline{\text{The}}$ A process as defined in claim 5 wherein the connection element is soldered to the carrier.
- 8. (Currently amended) The A process as defined in claim 58, wherein a cup-shaped insert is provided for closing the housing at the front end, said insert being pushed into the housing in the direction of the rear end from the front end.
- 9. (Currently amended) <u>The A process as defined in claim 8, wherein the insert is held on the housing in a force-locking manner after its insertion of the insert into the housing.</u>

- 10. (Currently amended) The A process as defined in claim 58, wherein the carrier-connection element combination is placed onto a closure element forming the closed front end.
- 11. (Currently amended) The A process as defined in claim 58, wherein a longitudinal direction of the housing is oriented in its longitudinal direction essentially parallel to the a direction of earth's gravitational force gravity during the introduction of at least one of the carrier-connection element combination and the molding compound.
- 12. (Currently amended) The A process as defined in claim 58, comprising controlling the amount of molding compound introduced into the housing.
- 13. (Currently amended) <u>The</u> A process as defined in claim 58, wherein during the capping of the open rear end of the housing, the carrier-connection element combination is aligned in <u>a</u> the longitudinal direction of the housing.
- 14. (Currently amended) <u>The A process</u> as defined in claim 58, wherein during the capping of the open rear end of the housing, the carrier-connection element combination is aligned essentially collinear to a the longitudinal axis of the housing.
- 15. (Currently amended) The A process as defined in claim 58, wherein the cap is pushed into the housing.
- 16. (Currently amended) <u>The A process as defined in claim 15, wherein the cap is pushed into the housing as far as a stop provided on the cap.</u>
- 17. (Currently amended) $\underline{\text{The}}$ A process as defined in claim 15, wherein the cap is pushed into the housing prior to hardening of

the molding compound.

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- 18. (Currently amended) <u>The A process as defined in claim 58,</u> wherein the cap is positioned on the carrier-connection element combination before the carrier-connection element combination is introduced into the housing interior.
- 19. (Currently amended) $\underline{\text{The}}$ A process as defined in claim 18, wherein the carrier-connection element combination is pushed into the housing with the cap positioned thereon.
- 20. (Currently amended) <u>The A process as defined in claim 58,</u> wherein the cap and the connection element are provided with complementary fixing means.
- 21. (Currently amended) The A process as defined in claim 20, wherein during a connection of the cap with the housing, the cap and the carrier-connection element combination are oriented relative to one another such that the respective fixing means can engage on one another.
- 22. (Withdrawn) Position sensor comprising a housing (12) for accommodating an electrical circuit (24) arranged on a carrier (22) in a housing interior (16) and an electrical connection element (46), characterized in that the carrier (22) and the connection element (46) are rigidly connected to one another to form a carrier-connection element combination (60) and a molding compound (88) is arranged in a space between the carrier-connection element combination and an inner wall (14) of the housing.
- 23. (Withdrawn) Position sensor as defined in claim 22, characterized in that the connection element (46) is a plug insert.

- 24. (Withdrawn) Position sensor as defined in claim 22, characterized in that the connection element (46) is soldered to the carrier (22).
- 25. (Withdrawn) Position sensor as defined in claim 22, characterized in that the housing (12) is manufactured from metal.
- 26. (Withdrawn) Position sensor as defined in claim 22, characterized in that the housing (12) is closed at a measuring end (30) with a cup-shaped insert (32).
- 27. (Withdrawn) Position sensor as defined in claim 26, characterized in that the insert (32) is manufactured from a plastic material.
- 28. (Withdrawn) Position sensor as defined in claim 26, characterized in that a sealing element (40) is formed on the insert (32) for sealing between the insert (32) and the inner wall (14) of the housing.
- 29. (Withdrawn) Position sensor as defined in claim 26, characterized in that the insert (32) is designed to be pushed into the housing (12).
- 30. (Withdrawn) Position sensor as defined in claim 29, characterized in that the insert is designed such that it is positionable on the housing (12) in a force-locking manner.
- 31. (Withdrawn) Position as defined in claim 22, characterized in that the housing (12) is designed to be essentially rotationally symmetrical.

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- 32. (Withdrawn) Position sensor as defined in claim 22, characterized in that the housing interior (16) has essentially the same cross section over the length of the housing (12).
- 33. (Withdrawn) Position sensor as defined in claim 22, characterized in that a cap (62) is seated at a rear end (54) of the position sensor (10) facing away from the measuring end (30).
- 34. (Withdrawn) Position sensor as defined in claim 33, characterized in that the cap (62) is of a plastic material.
- 35. (Withdrawn) Position sensor as defined in claim 33, characterized in that the cap (62) is at least partially transparent.
- 36. (Withdrawn) Position sensor as defined in claim 33, characterized in that the cap (62) is pushed into the housing (12).
- 37. (Withdrawn) Position sensor as defined in claim 36, characterized in that the cap (62) has a stop (84), the insertion into the housing (12) being limited by said stop.
- 38. (Withdrawn) Position sensor as defined in claim 33, characterized in that the cap has an opening (66) for the connection element (46).
- 39. (Withdrawn) Position sensor as defined in claim 38, characterized in that the opening is designed such that the carrier-connection element combination (60) is adapted to be fixed in the housing (12) transversely to the longitudinal direction (18) thereof by means of said opening.

- 40. (Withdrawn) Position sensor as defined in claim 38, characterized in that the opening (66) for the connection element (46) has a smaller diameter than the housing (12).
- 41. (Withdrawn) Position sensor as defined in claim 33, characterized in that the connection element (46) is provided with a fixing means (96) and the cap (62) with a fixing means (98) adapted thereto and the fixing means (96, 98) are adapted to engage in one another.
- 42. (Withdrawn) Position sensor as defined in claim 33, characterized in that the cap (62) is provided with an external thread (72).

Claims 43-57 (Cancelled).

58. (Currently amended) A process for fabricating a position sensor, comprising:

providing a housing with a closed front end and an open rear end;

providing a carrier having an electronic circuit thereon; providing an electrical connection element on said carrier to form a carrier-connection element combination to enable an external connection to said electronic circuit;

introducing said carrier into the open rear end of said housing;

introducing pouring a molding compound into said open rear
end of said housing for encapsulating said electronic circuit
within the housing; and

capping the open rear end of said housing with a cap; wherein connection portions of said electrical connection element are guided through said cap.

59. (Currently amended) The A process as defined in claim 58,

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wherein said carrier is introduced into the open rear end of said housing, and said molding compound is then poured around said carrier.

- 60. (Cancelled).
- 61. (Currently Amended) <u>The A process as defined in claim 58,</u> wherein said molding compound is introduced into said housing, and the carrier is then inserted into said molding compound from the open rear end of the housing.
- 62. (Currently amended) The A process as defined in claim 61, wherein said molding compound is poured into said housing from said open rear end.